

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

**(19) World Intellectual Property Organization
International Bureau**



A standard linear barcode is located at the bottom of the page, spanning most of the width. It is used for tracking and identification of the document.

**(43) International Publication Date
26 May 2005 (26.05.2005)**

PCT

(10) International Publication Number
WO 2005/046842 A1

(51) International Patent Classification⁷: B01D 47/12,
53/14

[US/US]; 1312 NE 35th Street, Cape Coral, Florida 33909 (US). **GREEN, Jerry** [US/US]; 7649 Brentwood, Anchorage, Alaska 99502 (US).

(21) International Application Number: PCT/US2004/037257

(74) **Agent:** SCHODDE, Gregory C.; McAndrews, Held & Malloy, Ltd., 500 W. Madison Street, Suite 3400, Chicago, Illinois 60625 (US).

(22) International Filing Date: 8 November 2004 (08.11.2004)

(81) **Designated States** (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

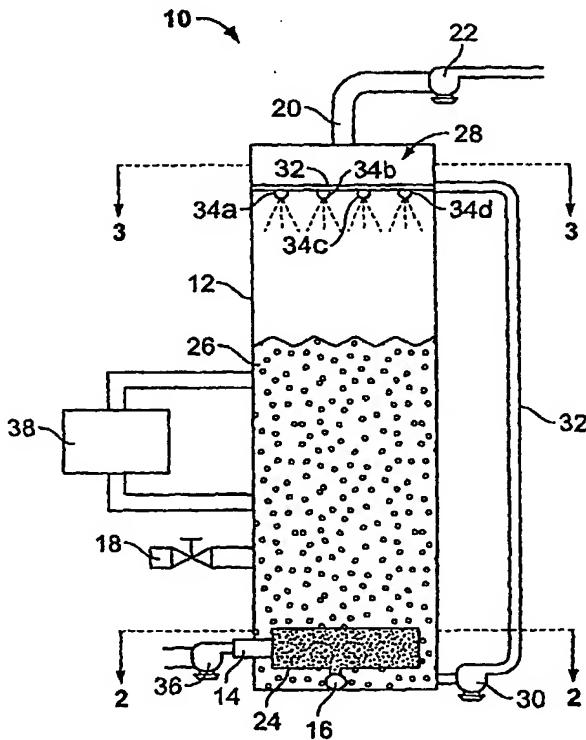
(25) Filing Language: English

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH,

[Continued on next page]

(54) Title: A DEVICE FOR REMOVING PARTICULATE, VARIOUS ACIDS, AND OTHER CONTAMINANTS FROM INDUSTRIAL EXHAUST GASES

(57) Abstract: Exhaust gases enter the tank of a columnar vessel (12) and are subsequently forced through a diffuser (24) that is at least partially immersed in a column of solution.





GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

Published:

— *with international search report*

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.